

Double-layer electrical distribution box size and specifications table



Overview

Electrical DB Box Size Guide 2026 This report provides a comprehensive analysis of electrical distribution board (DB) box sizes, Distribution box catalogue.

Key Takeaways

A typical double-layer electrical distribution box ranges from approximately 600–800 mm in height, 400–600 mm in width, and 150–300 mm in depth, depending on residential or commercial specifications.

A double-layer electrical distribution box (also called a double-tier or two-level DB) is designed to house multiple circuit breakers or fuses in two stacked rows, allowing for organized distribution of electricity across several circuits . These boxes are commonly used in residential, commercial, and light industrial settings.

Typical Dimensions

- Height: 600–800 mm
- Width: 400–600 mm



- **Depth:** 150–300 mm These dimensions can vary depending on manufacturer, intended amperage, and whether the box is wall-mounted or freestanding . The internal usable space is slightly smaller than the external dimensions due to wall thickness, door returns, and mounting hardware .

Design Considerations

- **Internal Layout:** Double-layer boxes typically have two rows of breakers, with bus bars connecting the main supply to each tier.
- **Capacity:** Residential double-layer boxes often accommodate 12–24 circuits, while commercial or industrial versions can hold more, depending on amperage and breaker size .
- **Material and Protection:** Boxes are usually made of metal or high-grade plastic and may have IP ratings (IP44–IP67) for dust and water resistance .
- **Future Expansion:** Many double-layer boxes are designed with extra slots or space to allow for additional circuits or upgrades, such as EV chargers or smart home systems .

Summary

When selecting a double-layer electrical distribution box, consider external dimensions, internal usable space, number of circuits, amperage rating, and environmental protection. Typical sizes for residential and light commercial applications fall within 600–800 mm height, 400–600 mm width, and 150–300 mm depth, but always verify manufacturer specifications and local electrical codes before installation .

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This guide explores control panels, electrical boxes, breaker panels, bus bars, junction boxes, and custom enclosures

Electrical Boxes

Single gang electrical box dimensions vary by manufacturer and type, but are about 2" wide by 4" high. Similarly, a double gang box,

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12-Way available in steel or plastic

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Need the right electrical box dimensions? Our comprehensive size chart compares metal, plastic, waterproof boxes for

LOW VOLTAGE FINAL DISTRIBUTION BOARDS (DB)

Ex:- For double busbar system with isolator & 2nos ELCBs as incoming for a TPN the three digit code is 36D. If the combination of

SEC DISTRIBUTION CONSTRUCTION STANDARD

For construction and operation of meter room, the service conditions and system requirements shall be as given in the latest revision

Technical Specifications

Meralco's materials and services technical specifications are now available using the files provided below. These

TWO-GANG BOXES (General Dimensions)

5412-0 TO 5415-0 EXTENSIONS: 5400-0 SERIES SWING ARM EXTENSION ADAPTERS
TWO-GANG BOXES (General

How to determine the size of distribution box

The size of the distribution box is reserved When the electric box is only a lighting electric

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[How to Install a Distribution Box—A Comprehensive Instruction](#)

An electrical distribution box, also known as a power distribution box, panelboard, or consumer unit, is the core of an

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[Electrical Enclosure Sizes: Comprehensive Guide to Choosing the](#)

Find the right electrical enclosure size for any project. This guide covers standard sizes, selection tips, ratings, and

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ELECTRICAL DISTRIBUTION SYSTEM

Some of the drawings and specifications are from RUS bulletins 1728F-804 "Specifications and Drawings for 12.47/7.2 kV

The installation requirements for the distribution box

A distribution box is the heart of any electrical system. It takes the incoming power and safely distributes it to different

Outdoor Electrical Distribution Box Specifications: NEC

Complete specification guide for outdoor electrical distribution boxes covering NEC Article

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

